

SCOP Novice 4 | Round 2

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Tossups

1. **This author wrote about the smuggler Harry Morgan in *To Have and Have Not*. “The American” pressures Jig into getting an abortion in this man’s short story “Hills Like White Elephants.” His collection *In Our Time* includes many short stories about (*) Nick Adams, and a novella by this man sees Santiago struggle with a giant marlin. For 10 points, identify this American author of *A Farewell to Arms* and *The Old Man and the Sea*.**

Answer: Ernest (Miller) Hemingway

2. **The Keeling Curve plots the atmospheric concentration of this compound. Its supercritical form is used to decaffeinate coffee beans, and it reacts with ammonia to form urea or with water to form carbonic acid. This linear molecule with two (*) double bonds is produced alongside water in combustion reactions. At room temperature this gas sublimates from its solid form, called dry ice. For 10 points, name this greenhouse gas exhaled by humans, with formula CO₂.**

Answer: carbon dioxide (accept CO₂ before the end; do not accept “carbon monoxide”)

3. **Humans were the “cattle of” one god of this domain, who used red-dyed beer to calm Sekhmet in her rage against mankind. A god of this type was associated with the disk, Aten, and battled the serpent Apep in the underworld. Worshipped at (*) Thebes, this type of god traveled across the sky each day in a great boat. For 10 points, Amun and Ra were what kind of ancient Egyptian deity, who represented Earth’s star?**

Answer: ancient Egyptian sun gods (accept “deity” or logical equivalents for “god”; accept Ra or cattle of Ra before “domain” is read; do not accept “sun goddess”)

4. **This text notes that "it is altogether fitting and proper" that a cemetery should be dedicated, but that the land has already been consecrated by those who "gave the last full measure of devotion." This two-minute speech ends by resolving that (*) "government of the people, by the people, for the people, shall not perish from the earth." For 10 points, name this speech written by Abraham Lincoln "four score and seven years" after American independence.**

Answer: Gettysburg Address

5. In this work, a St. Margaret statue sits atop a bedpost and one candle burns in a chandelier. Oranges sit on a low cabinet behind the central figures, and scenes from Jesus' life decorate a convex mirror in the background, which reflects this painting's artist. A woman in a (*) green dress gathers her skirts to the front and joins hands with her husband in front of a red-draped bed. For 10 points, name this painting of an Italian couple by Jan Van Eyck [yahn van ike]

Answer: The Arnolfini Wedding (accept The Arnolfini (Double) Portrait; accept Giovanni Arnolfini and His Bride; accept any answer including "Arnolfini" and the suggestion of a wedding or marriage)

6. A concentration of iridium corresponds to one of these events that took place at the K-T boundary, and which was likely due to the Chicxulub [CHEEK-shoo-loob] impact. The coelacanth [SEE-lih-kant] is an example of a Lazarus taxon which experiences this event but then reappears in the fossil record. More recently, this event occurred to the (*) passenger pigeon and dodo. Dinosaurs experienced this about 65 million years ago. For 10 points, name this event in which an entire species dies.

Answer: (mass) extinction event(s) (prompt on dying or similar answers; accept asteroid impact or logical equivalent until "Chicxulub" is read)

7. This novel claims to be a translation of a work by Cide Hamete Benengeli. The protagonist thinks a barber's washbasin in the Helmet of Mambrino, and is defeated by the Knight of the White Moon. This work's main character rides the horse (*) Rocinante, is infatuated with Dulcinea, and hires the squire Sancho Panza. For 10 points, identify this novel about the title windmill-tilting knight-errant, a work by Miguel de Cervantes.

Answer: (The Ingenious Gentleman) Don Quixote of La Mancha (accept The Adventures of Don Quixote; accept (El ingenioso hidalgo) don Quijote de la Mancha)

8. This man's "I am prepared to die" speech outlined the aims of the armed group Spear of the Nation. He was "Accused #1" in the Rivonia Trial, after which he was imprisoned at Robben Island. After his release, this member of the (*) ANC was elected President; he established the Truth and Reconciliation Commission to help heal the wounds of Apartheid. For 10 points, name this first black President of South Africa, who died in December of 2013.

Answer: Nelson Mandela

9. In Super Smash Brothers Brawl, only King Dedede has a longer grab range than this Pokemon. In the Base Set Trading Card Game, its Energy Burn turns all energy cards into Fire energy, and its Fire Spin deals (*) 100 damage. In Generation 1, this is your rival's final Pokemon if you began the game with Bulbasaur. The cover of Pokemon Red features, for 10 points, what Fire/Flying type Pokemon, the final evolution of Charmander?

Answer: Charizard

10. Title 2 of this law expanded the use of pen registers to Internet communication. Wisconsin's Russ Feingold was the only Senator who voted Nay on this bill, whose Title 4 permits indefinite detention of immigrants. It was passed in October (*) 2001, shortly after the anthrax letters and 9/11 attacks. For 10 points, name this controversial act whose name is an acronym for "Providing Appropriate Tools Required to Intercept and Obstruct Terrorism."

Answer: USA PATRIOT Act of 2001 (or Uniting (and) Strengthening America (by) Providing Appropriate Tools Required (to) Intercept (and) Obstruct Terrorism Act of 2001)

11. In one of this author's novels, Little Father Time hangs himself and two of Sue Bridehead's children. In one novel, this author described a love quadrilateral of Thomasin and Clym Yeobright, Damon Wildeve, and (*) Eustacia Vye. This author wrote about a milkmaid who murders Alec and is in love with Angel Clare. For 10 points, identify this British author of *Jude the Obscure*, *The Return of the Native*, and *Tess of the D'Urbervilles*.

Answer: Thomas Hardy

12. In this work, one man sends the escaped slave Onesimus back to his owner in Colosse. A story in this work likens the tongue to a ship's rudder, and another compares salvation to a "Pearl of Great Price." One man wrote, (*) "Love is patient, love is kind," to the Corinthians in this work, in which Jesus turns water into wine. For 10 points, name this section of the Bible which contains the Epistles and the Gospels.

Answer: New Testament (accept "(Epistle to) Philemon" until "tongue" is read; prompt on "Bible" until "section" is read)

13. This man found the sum of the squares of the reciprocals of all natural numbers, thus solving the Basel problem, to be $\pi^2/6$ ["pi squared over six"]. The limiting difference between the natural log function and the harmonic series is a constant named for him and Mascheroni [mas-kair-OH-nee]. In 1736, he proved that no (*) path crossed each of the Pregel River's seven bridges in Konigsberg exactly once. Graph theory was essentially invented by, for 10 points, what Swiss mathematician and namesake of a constant about equal to 2.718, called e ?

Answer: Leonhard (Paul) Euler [OY-lur]

14. The announcement of this event was accompanied with the cry "Deus vult!" at the Council of Clermont. Peter the Hermit and Godfrey of Bouillon were leaders in this campaign, which fought against Seljuk Turks to assist Alexios I Komnenos [Alexios "the first" kohm-nay-nohs], the (*) Byzantine emperor. For 10 points, name this 11th century military conflict called by Pope Urban II, which began a series of European campaigns over holy lands, including Jerusalem.

Answer: First Crusade (prompt on "holy crusade(s)"; prompt on "Council of Clermont" before mentioned)

15. In one work, this man criticized Robert Filmer's view of monarchy and argued that revolution is needed if the government fails to serve the interests of citizens. He wrote that knowledge is gained from experience alone because the human mind at birth is a (*) *tabula rasa*, or "blank slate," in *An Essay Concerning Human Understanding*. For 10 points, name this English philosopher who described social contract theory in *Two Treatises of Government*.

Answer: John Locke

16. Fallstreak holes can appear in these objects. Extreme cold near the north or south pole can cause the nacreous type of these, which are iridescent. A pileus is one of these objects that "caps" another of these objects, and (*) contrails are a man-made type of these objects that can be formed from jet engine exhaust. Stratus, cirrus, and cumulonimbus are types of, for 10 points, what skyborne masses of condensed water droplets?

Answer: clouds

17. A fifth movement to this composer's Serenade No. 13 in G Major does not survive. Near the end of his life, he composed a Clarinet Quintet and a Clarinet Concerto for his friend, Anton Stadler. He did not live to complete the (*) *Lacrimosa* section of his *Requiem* Mass, but this child prodigy did finish 41 symphonies, including the *Jupiter* Symphony. *Eine Kleine Nachtmusik* ["eye"-nuh kl"eye"-nuh nahkt moo-zeek] was composed by, for 10 points, what Austrian composer?

Answer: Wolfgang Amadeus Mozart

18. This city's oldest hospital was funded by Governor MacQuarie's imported rum. The world's tallest steel arch bridge spans this city's harbor just northwest of Bennelong Point, home to a Jorn Utzon-designed building with seven white concrete (*) shells. This city lies on Botany Bay, where, in 1770, James Cook landed the *HMS Endeavour*. For 10 points, name this home to a notable Opera House, the capital of New South Wales and most populous city in Australia.

Answer: Sydney

19. One work by this author compares insults in "The Thirteens," and begins with the section "Where Love is a Scream of Anguish." In one work by this author, the Rock commands, "face your distant destiny." This poet describes a tune that is "heard on a distant hill" in one poem, in which the title figure sings of (*) Freedom. For 10 points, name this American poet of "On the Pulse of Morning" and "I Know Why the Caged Bird Sings."

Answer: Maya Angelou (accept Marguerite Ann Johnson)

20. This scientist names an interference pattern produced when a convex lens is placed on a glass plane, called his "rings". Viscosity is constant for different shear rates in his namesake fluids. One law named for him states that the time (*) derivative of momentum equals the net force, more often written F equals ma . Independently of Leibniz, he invented calculus. For 10 points, name this English physicist who names three laws of motion.

Answer: Isaac Newton

Bonuses

1. In the weeks after this man was overthrown in a July 3, 2013 military coup, he was said to be in a "safe place" but had not made a public appearance. For 10 points each, [10] Name this former President of the Muslim Brotherhood's political party, the Freedom and Justice Party, who was elected President of his nation in 2012, shortly after the downfall of Hosni Mubarak.

Answer: Mohamed Morsi

[10] Morsi was overthrown from power in this African nation, whose capital is Cairo.

Answer: Arab Republic of Egypt

[10] News of the coup was met by cheers in this Cairo town square near the east bank of the Nile. In 2011, millions of protesters in this square called for the ouster of Hosni Mubarak.

Answer: Tahrir Square

2. A power metal band named for this type of "force" wrote the impossible *Guitar Hero* piece "Through the Fire and Flames," while a Chicago-based band named "I Fight [these]" gained fame for their chiptune cover of the Legend of Zelda theme. For 10 points each,

[10] Name this mythical winged lizard, famous examples of which include Spyro and Smaug.

Answer: dragons (accept DragonForce or I Fight Dragons)

[10] Probably the most famous dragon-named band is this Dan Reynolds-fronted band whose 2013 studio debut, *Night Visions*, used hammer dulcimer at the beginning of the song "It's Time."

Answer: Imagine Dragons

[10] Imagine Dragons's biggest hit to date is this second American single off of *Night Visions*. Its lyrics speak of how "I can feel it in my bones / Enough to make my systems blow."

Answer: Radioactive

3. Johannes Kepler used inscribed Platonic solids to model this region of the universe. For 10 points each,

[10] Name this cosmological region, which, in Kepler's time, only included six of the eight planets around the Sun.

Answer: solar system

[10] Kepler's first law states that a planet's orbit is one of these shapes with the sun at one focus.

Answer: ellipse (accept elliptical)

[10] Kepler's second law states that planets sweep out equal areas in equal times and is a consequence of this quantity's conservation. Its time derivative equals net torque.

Answer: angular momentum (prompt on "L"; do not accept or prompt on "momentum")

4. According to legend, this man's sickly appearance in the first televised Presidential debate led to his loss in the 1960 election to John F. Kennedy. For 10 points each, [10] Name this Vice President under Dwight Eisenhower, who would win the 1968 and 1972 elections before resigning in the Watergate scandal.

Answer: Richard (Milhous) Nixon

[10] Kennedy received roughly 110,000 more votes than Nixon--a near tie in the popular vote--but received 303 votes in this body; 270 votes from this body are currently needed to be elected President.

Answer: Electoral College

[10] In 1960, Nixon was the landslide Republican Presidential nominee; this Arizona senator received the only 10 non-Nixon votes at the convention. In 1964, he ran against Lyndon Johnson, who targeted him with the "Daisy" advertisement.

Answer: Barry (Morris) Goldwater

5. Examples of this literary style include "A Good Man is Hard to Find" and "Young Goodman Brown," which was collected in *Twice-Told Tales*. For 10 points each,

[10] Name this form of fiction, exemplified by "The Lady with the Dog." Typically meant to be read in a single sitting, this style is not as long as a novel or novella.

Answer: short stories (prompt on "short fiction")

[10] "The Lady With a Dog" is by this Russian author known for gloomy plays like *Uncle Vanya* and *The Seagull*.

Answer: Anton Pavlovich Chekhov

[10] Another of Chekhov's plays is this work, in which Lopakhin buys the title estate from Madame Ranevskaya due to his distaste for her family.

Answer: The Cherry Orchard (accept Vishnyovy sad)

6. For 10 points each, give the following about Eastern classical music.

[10] The Javanese gamelan ensemble includes many of these flat, metal percussive instruments. In Western orchestras, these large discs are usually hung in a frame, and usually create a loud "crashing" sound instead of a specifically tuned note.

Answer: gong

[10] The guqin [ku-chin], a plucked zither-like instrument from China, is able to produce this type of glide from one tone to another. This effect is often used by trombones.

Answer: glissando

[10] This fretless string instrument includes roughly a dozen sympathetic strings that vibrate behind the plucked strings. It is common in Indian music and was famously played by Ravi Shankar.

Answer: sitar

7. Molarity is the concentration of a substance per unit of this quantity. For 10 points each,
[10] Name this property that describes the extent of space occupied by matter, sometimes measured in liters.

Answer: **volume**

[10] This law, named for an Italian scientist, states that at constant temperature and pressure, the volume of a gas is directly proportional to its number of particles.

Answer: **Avogadro's** law (accept Amadeo **Avogadro**)

[10] Avogadro's law only holds for this type of gas, in which individual molecules have insignificant volume or intermolecular forces. These gases obey the law $P V$ equals $n R T$.

Answer: **ideal** gas(es) (accept **perfect gases**)

8. The sixth and final section of this work contrasts the mental image of a triangle with the impossibility of making a mental image of a 1000-sided polygon; the former simply requires intelligence, while the latter requires the mind's imagination. For 10 points each,

[10] Name this 1641 philosophical text, published four years after its author stated "I think, therefore I am" in *Discourse on Method*.

Answer: **Meditations** on First Philosophy

[10] This French philosopher wrote *Meditations on First Philosophy*.

Answer: René **Descartes**

[10] The sixth Meditation seeks to prove that this entity is distinct from the body, leading to the concept of dualism. Descartes argued that this entity controls the body via the pineal gland.

Answer: the **mind** (accept **soul**; accept **spirit**; do not accept brain or other physical structures)

9. In dry air, it is about 343 meters per second. For 10 points each,

[10] Give this quantity, also called Mach ["mock"] 1.

Answer: **speed of sound** (accept **velocity of sound**)

[10] The disturbance of a sound wave is in the same direction as the overall wave moves, making sound waves this type of wave.

Answer: **longitudinal** wave

[10] Sound intensity level is usually expressed in terms of these base-ten logarithmic units. The sound of a jet engine is about 120 of these units.

Answer: **decibels**

10. He has a varicose ulcer above his ankle and works in the Records Department at the Ministry of Truth. For 10 points each,

[10] Name this protagonist of a dystopian novel who joins The Brotherhood with his lover, Julia, before being captured by O'Brien's Thought Police.

Answer: Winston Smith (accept either underlined name)

[10] Winston Smith appears in this novel, in which the ever-watchful Big Brother rules Oceania.

Answer: 1984

[10] *1984* was written by this British author of the essay "Shooting an Elephant."

Answer: George Orwell (accept Eric Arthur Blair)

11. This "Festival of Lights" celebrates the triumph of the Maccabees. For 10 points each,

[10] Name this Jewish holiday.

Answer: Chanukah (accept Hannukah)

[10] The chanukiah [hah-noo-kee-ah], sometimes called a menorah, holds up to nine of these objects. Two of these objects are used on Shabbat and most other Jewish holidays.

Answer: candles (accept cups of oil; prompt on "lights" or answers mentioning flames or fire)

[10] A candle is also lit to mark a *yahrzeit*, which is the anniversary of this event. Following this event, people sit shiva for a week and say kaddish.

Answer: death or dying (accept logical equivalents; do not accept "funeral" or "burial")

12. In one of his works, he showed an infant Jesus stroking the head of a bird which an infant John the Baptist is holding. For 10 points each,

[10] Name this Renaissance artist who painted *Madonna of the Goldfinch*. His frescoes include *The Parnassus* and *La Disputa*, or *The Disputation of the Sacrament*, in the Stanza della Segnatura [say-nyah-too-rah].

Answer: Raphael Sanzio

[10] Probably Raphael's most famous painting is this fresco, also in the Stanza della Segnatura. It depicts various thinkers, including Aristotle and Plato, arranged on stairs under an archway.

Answer: The School of Athens

[10] Raphael painted the aforementioned frescoes for Pope Julius II in this city's Apostolic Palace, the residence of Popes in this city-state within Rome.

Answer: Vatican City

13. Getting news of military victory back home was harder before modern technology existed, and it's even harder if "home" is the British Isles. For 10 points each,

[10] A British officer sailed across the English Channel, then rode 37 hours on horseback from Falmouth to London, to deliver news of this 1805 victory that crippled the French and Spanish navies. Admiral Lord Nelson was killed in this battle.

Answer: Battle of Trafalgar

[10] An apocryphal legend says that the Rothschild banking family profited from a few hours' advance notice of the Duke of Wellington's victory at this 1815 battle, the final defeat of a certain French emperor.

Answer: Battle of Waterloo

[10] This French emperor's forces lost at Trafalgar and Waterloo; this man was exiled to St. Helena after he abdicated.

Answer: Napoleon Bonaparte (or Napoleon I; accept Bonaparte)

14. One of her poems began "Twas mercy brought me from my Pagan land / Taught my benighted soul to understand / That there's a God." For 10 points each,

[10] Identify this early African-American poet of "To His Excellency, General Washington," who included "On Being Brought from Africa to America" in her *Poems on Various Subjects, Religious and Moral*.

Answer: Phillis Wheatley

[10] In one poem, Wheatley honored this British king for his repeal of the Stamp Act.

Answer: King George III (prompt on George)

[10] Wheatley unsuccessfully prayed "others may never feel the tyrannic sway" of this institution, whose other literary victims include Frederick Douglass.

Answer: slavery (accept word forms)

15. For 10 points each, name these parts of cells used for moving:

[10] This whip-like structure can be found on both eukaryotes and prokaryotes.

Answer: flagellum (or flagella)

[10] Ameboids may temporarily extend this structure made out of cytoplasm. Its name means "false foot".

Answer: pseudopodium (or pseudopodia)

[10] Only eukaryotes have these hair-like organelles, generally smaller than flagella, that can be used for both movement and sensation.

Answer: cilium (or cilia)

16. The Revolutionary War Battle of Valcour Island took place in Valcour Bay in this body of water, as did the Battle of Plattsburg during the War of 1812. For 10 points each,

[10] Name this lake on the border of New York and Vermont.

Answer: Lake Champlain

[10] Lake Champlain is often called the sixth of these bodies of water; so is Georgian Bay, northeast of Lake Huron, which is the third largest of these. The shallowest one of these is Lake Erie.

Answer: Great Lakes

[10] Benedict Arnold and Ethan Allen led the Green Mountain Boys in a 1775 attack on this fort at the southern end of Lake Champlain.

Answer: Fort Ticonderoga

17. In this work, the main character encounters Francesca da Rimini and Count Ugolino while traveling through the nine circles of hell. For 10 points each,

[10] Name this work, written by Dante Alighieri [dahn-tay al-ee-geh-ree], which is composed of three sections entitled *Inferno*, *Purgatorio*, and *Paradiso*.

Answer: Divine Comedy

[10] This author of the *Aeneid* [a-nee-id] guides Dante through Hell and part of Purgatory.

Answer: Virgil

[10] Surrounded by the beauties of Heaven, Dante cannot tear his eyes away from this godly woman, who guides him through the Celestial Spheres in *Paradiso*.

Answer: Beatrice

18. While completing his twelve labors, Hercules killed two of this god's children, Queen Antiope [an-TIE-oh-pee] of the Amazons and King Diomedes [die-AH-meh-deez]. For 10 points each,

[10] Name this Greek god who also fathered Phobos and Deimos [DAY-mohs].

Answer: Ares (do not accept Mars)

[10] Ares had an affair with this Greek goddess of love, and fathered Harmonia and Phobos with her. This goddess was also the mother of Eros.

Answer: Aphrodite (do not accept Venus)

[10] After this god released Hera from a throne in which he had trapped her, Hera gave Aphrodite's hand in marriage to him. He made a magical net in which to trap Ares and Aphrodite together.

Answer: Hephaestus (do not accept Vulcan)

19. It is given by the b in the linear equation y equals mx plus b . For 10 points each,
[10] Name this point where a function's x -coordinate is zero.

Answer: **y -intercept**

[10] A function can never have more than this many y -intercepts.

Answer: **one** y -intercept

[10] This value is the y -intercept of the graph y equals cosine of x .

Answer: (0, **1**)

20. For 10 points each, give the following about medieval Asian warfare.

[10] In the 16th century, Yi Sun-sin perfected the design of the turtle ships used by the Joseon dynasty to defend this Asian peninsula from the invading Japanese navy. One modern country on this peninsula has capital Seoul.

Answer: **Korean** peninsula

[10] These medieval Japanese warriors served for daimyos and often used katanas, curved two-handed swords perfected by Masamune.

Answer: **samurai**

[10] The Chinese chu-ko-nu was a repeating form of this ranged weapon; it was capable of firing one bolt, or multiple bolts simultaneously, and reloading the next round with one motion.

Answer: **crossbow** (do not accept or prompt on bow)